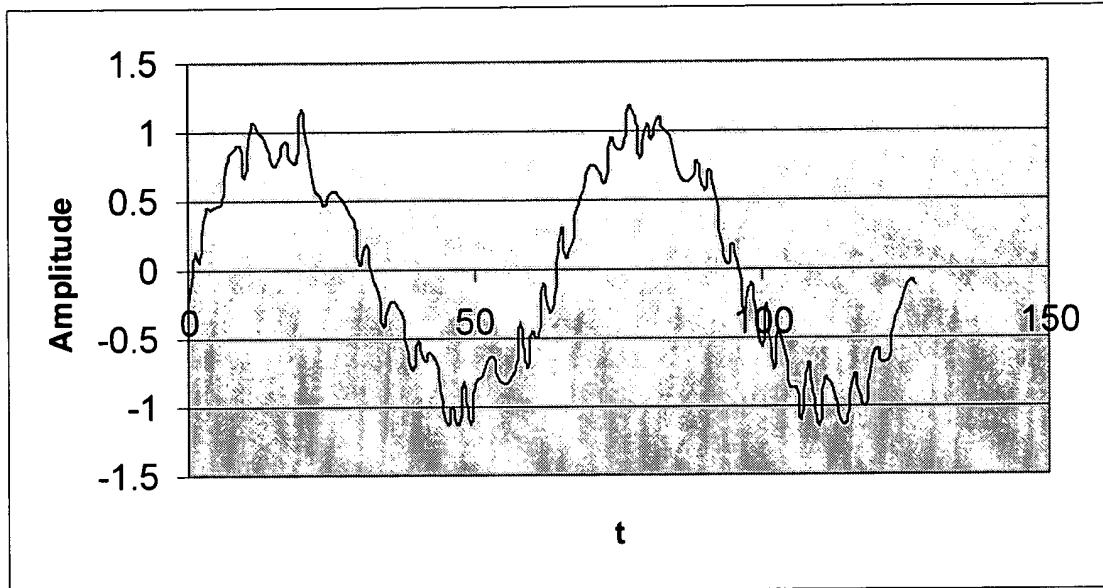
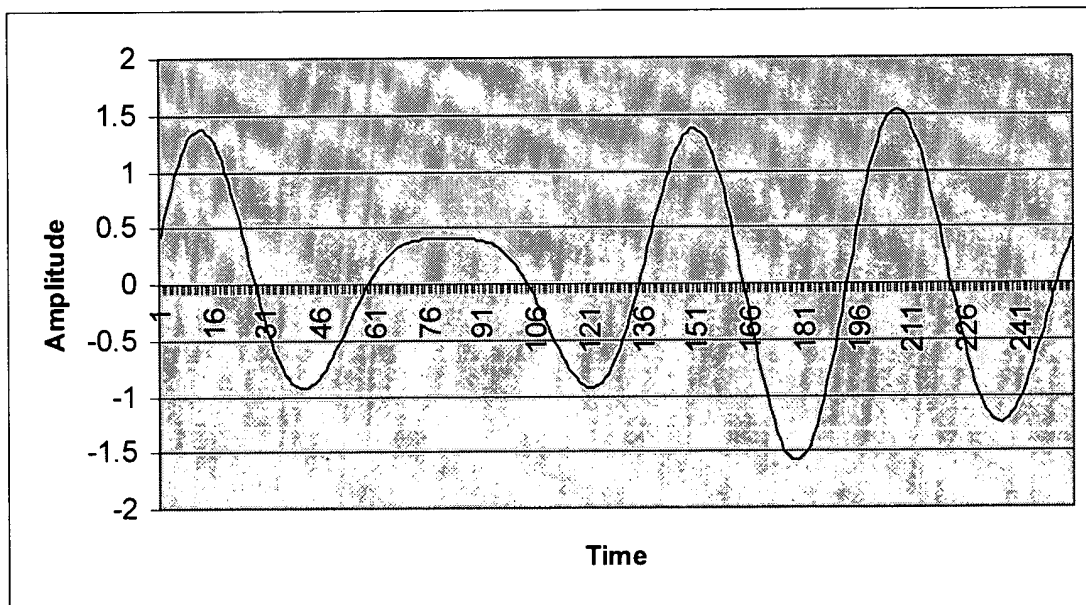
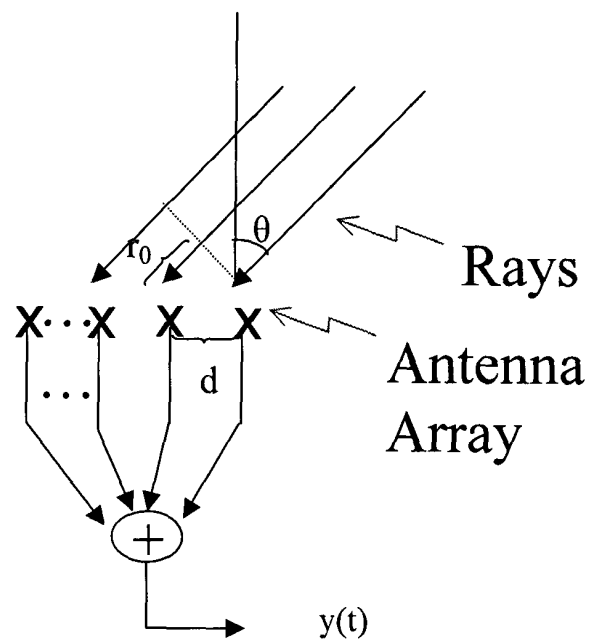
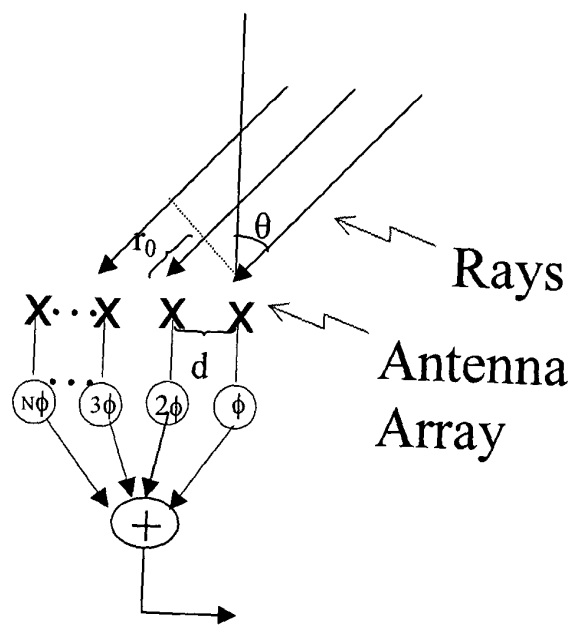


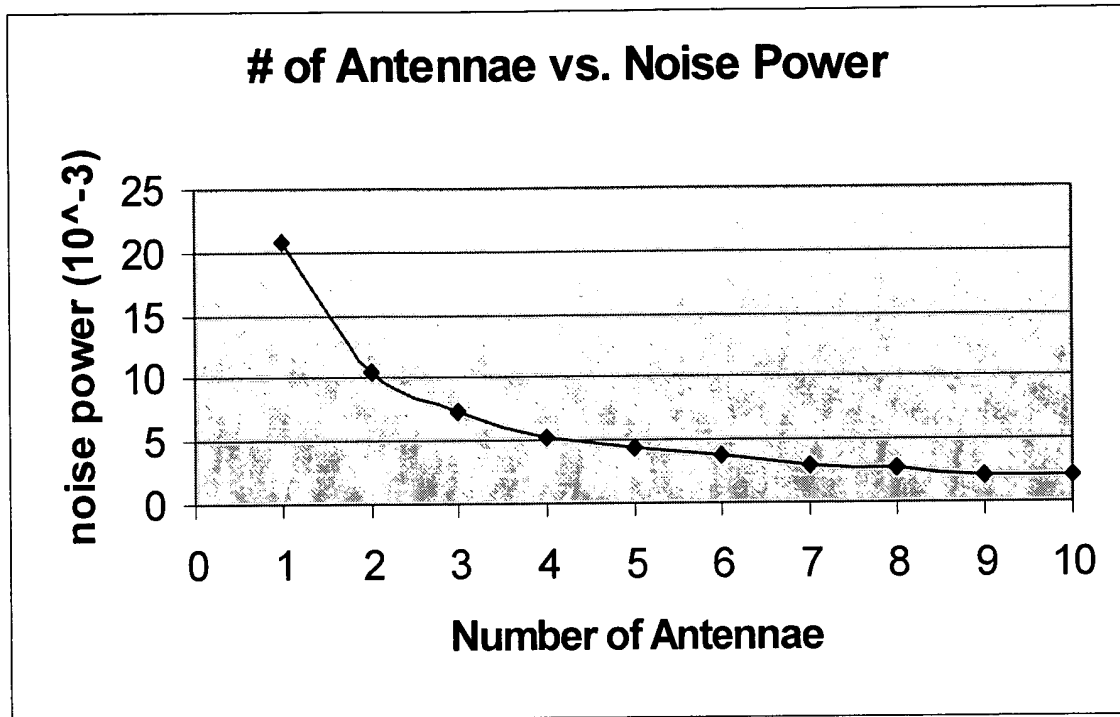
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REDUCING INTERFERENCE IN HIGH SPEED HOME  
NETWORK USING SIGNAL PROCESSING**Fig 1 Effect of noise on a received waveform****Fig 2 Effect of interference on a received waveform**

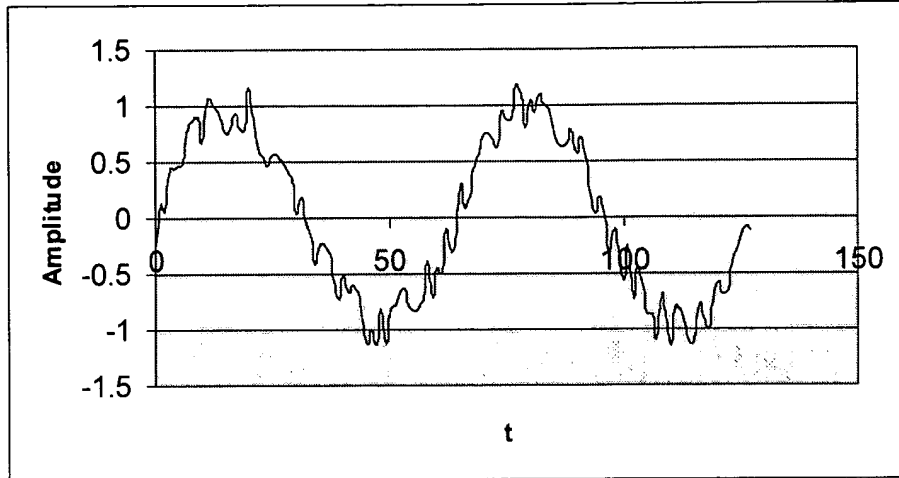
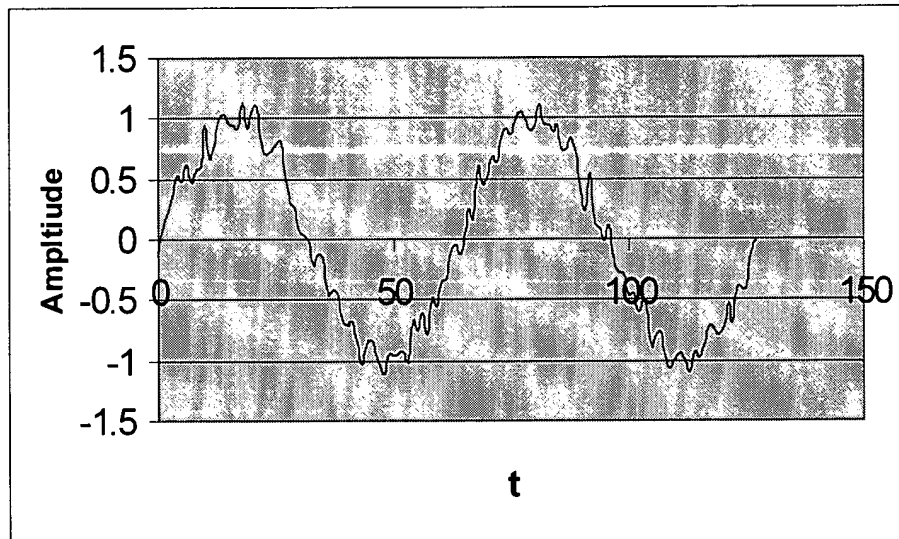
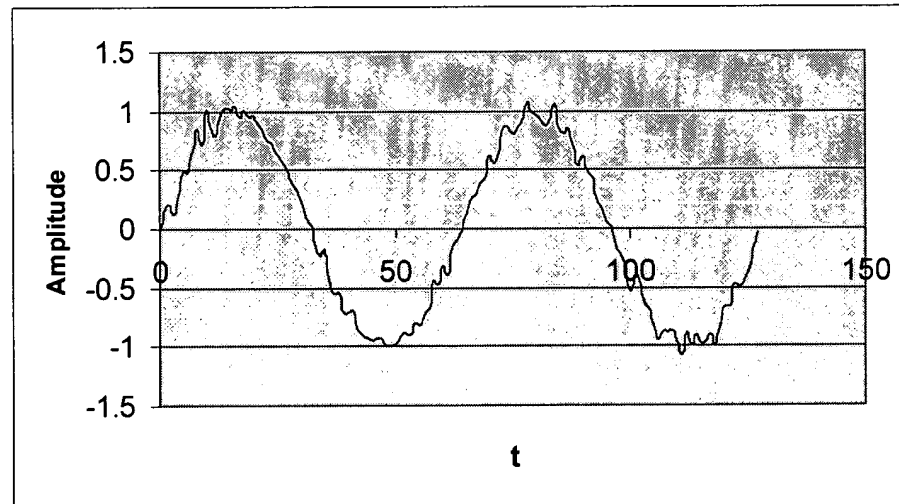
**Fig 3 Antennae Array Geometry**

**Fig 4 Beam Scanning**

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**Fig 5 Reduction in Noise Power as a function of number of antennae elements**

**Fig 6a Signal to Noise Ratio for 1 Element Array****Fig 6b Signal to Noise Ratio for 2 Element Array****Fig 6c Signal to Noise Ratio for 5 Element Array**

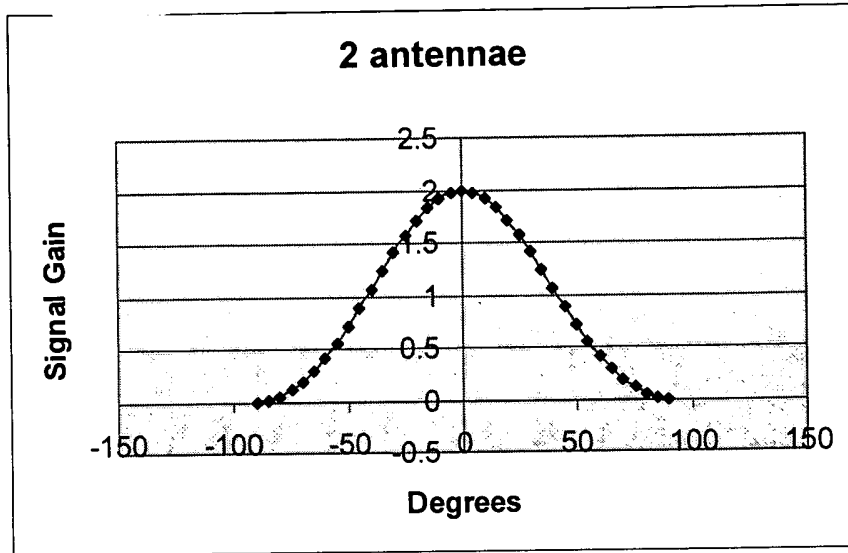


Fig 7a Beam Pattern for Two Elements

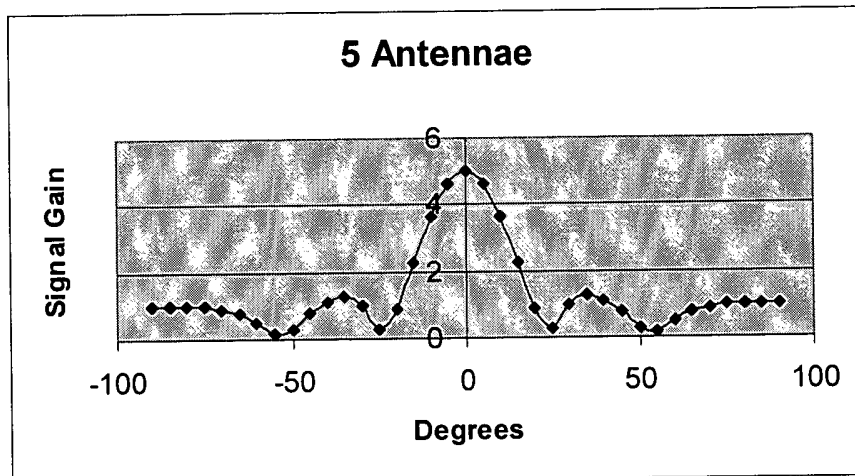


Fig 7b Beam Pattern for Five Elements

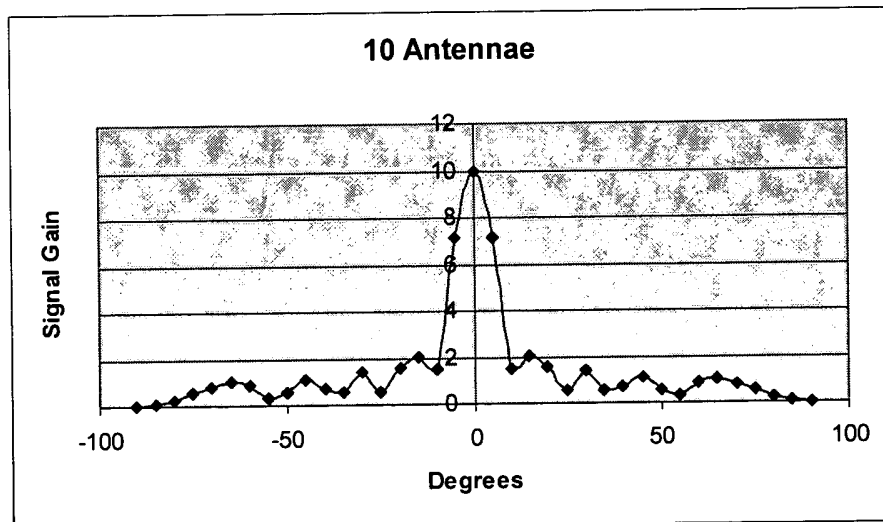


Fig 7c Beam Pattern for Five Elements

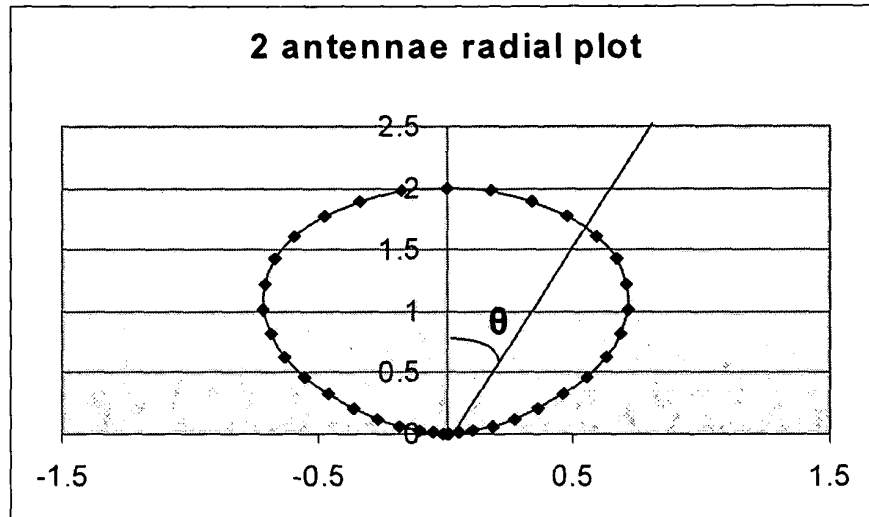


Fig 8a Radial Plot of beam pattern of antennae array with two elements

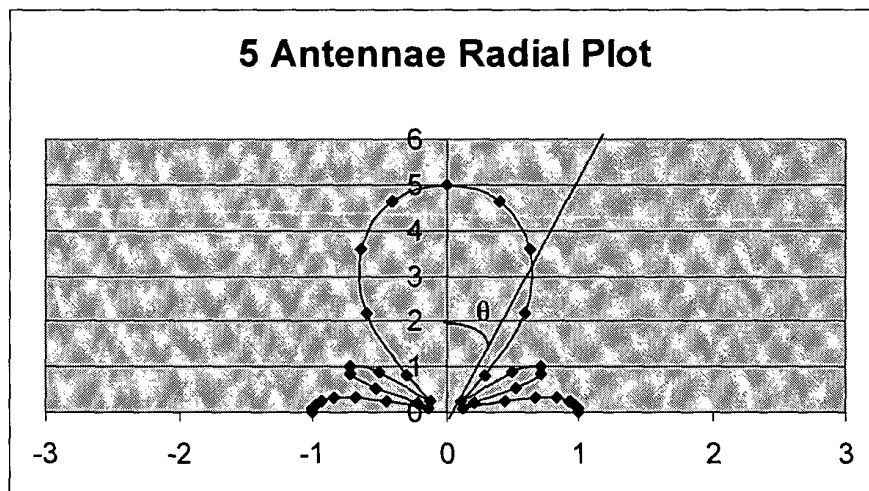


Fig 8b Radial Plot of beam pattern of antennae array with five elements

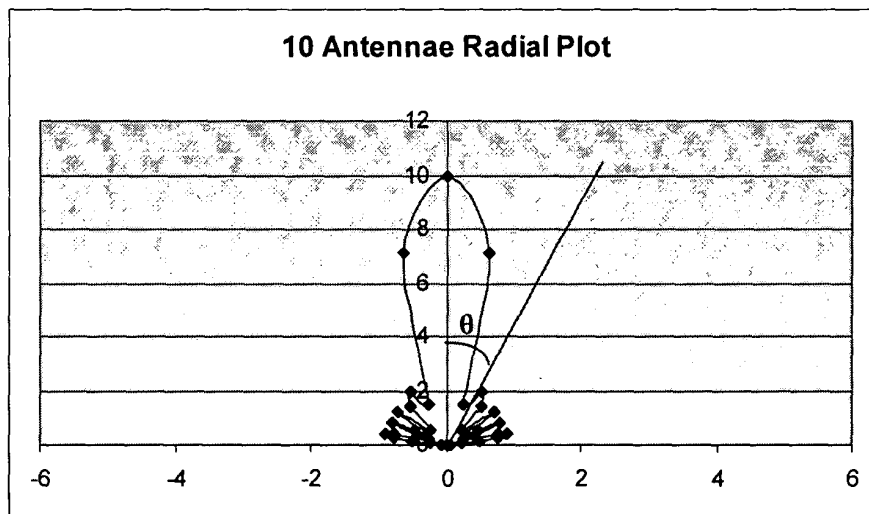
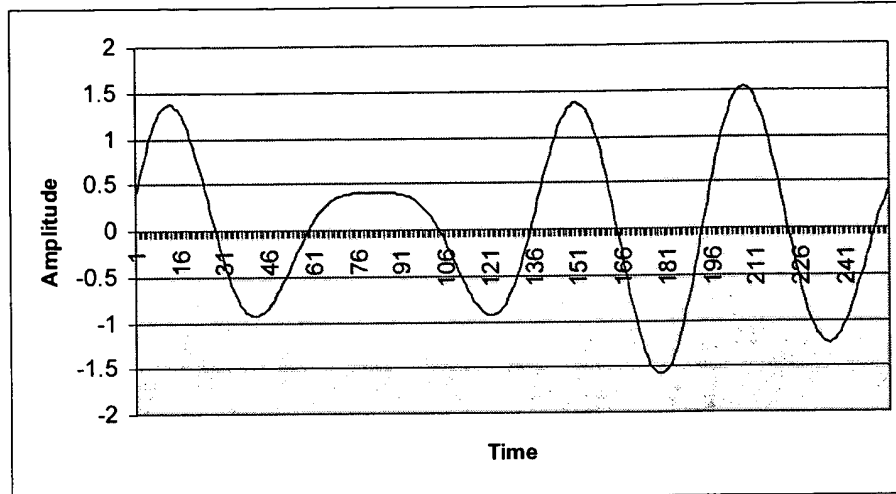
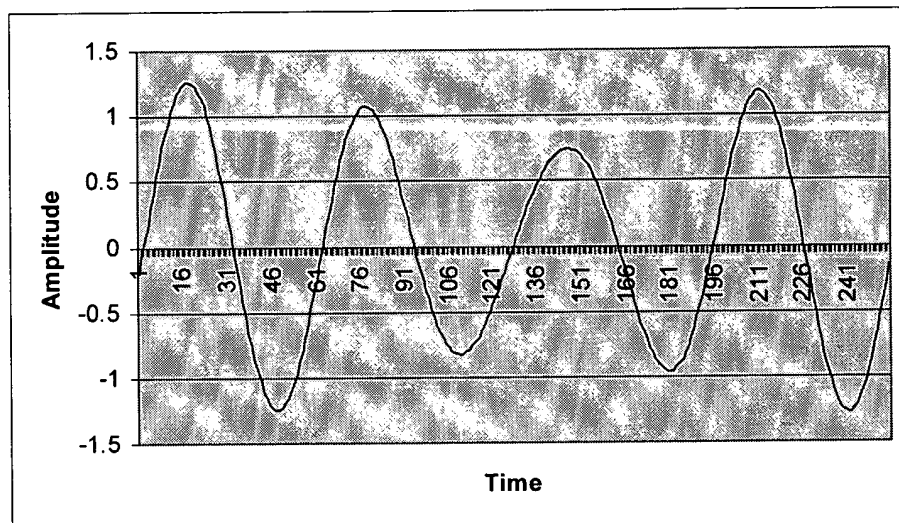


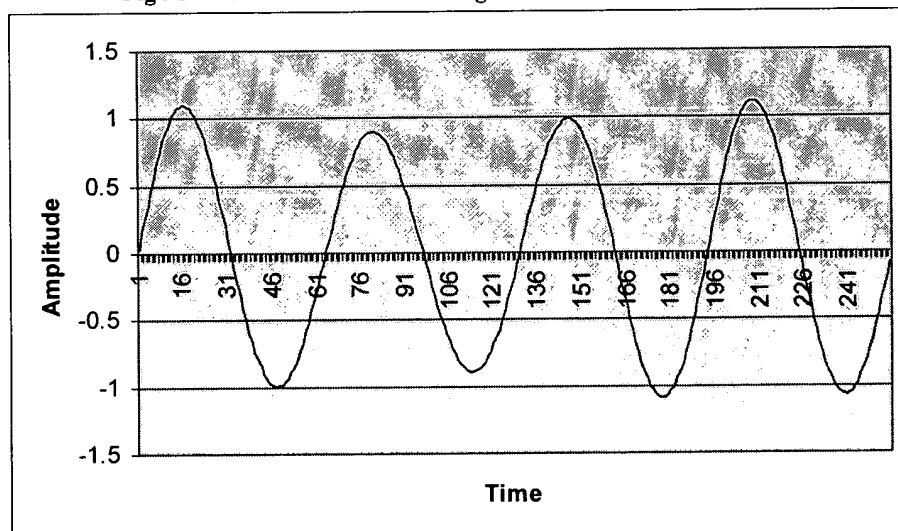
Fig 8c Radial Plot of beam pattern of antennae array with ten elements



**Fig 9a Effect of interference on signal for one antennae element array**

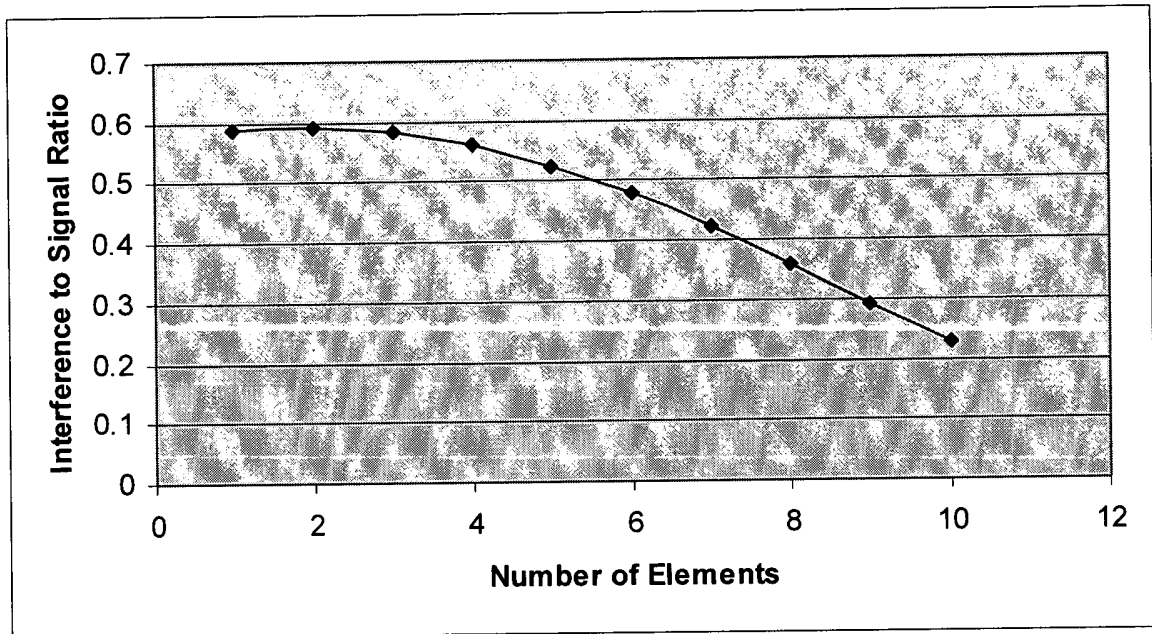


**Fig 9b Effect of interference on signal for five antennae element array**



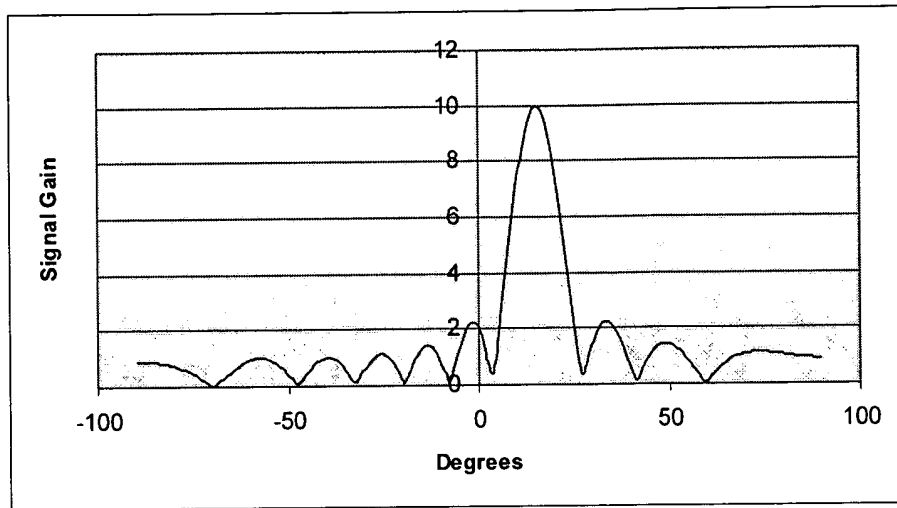
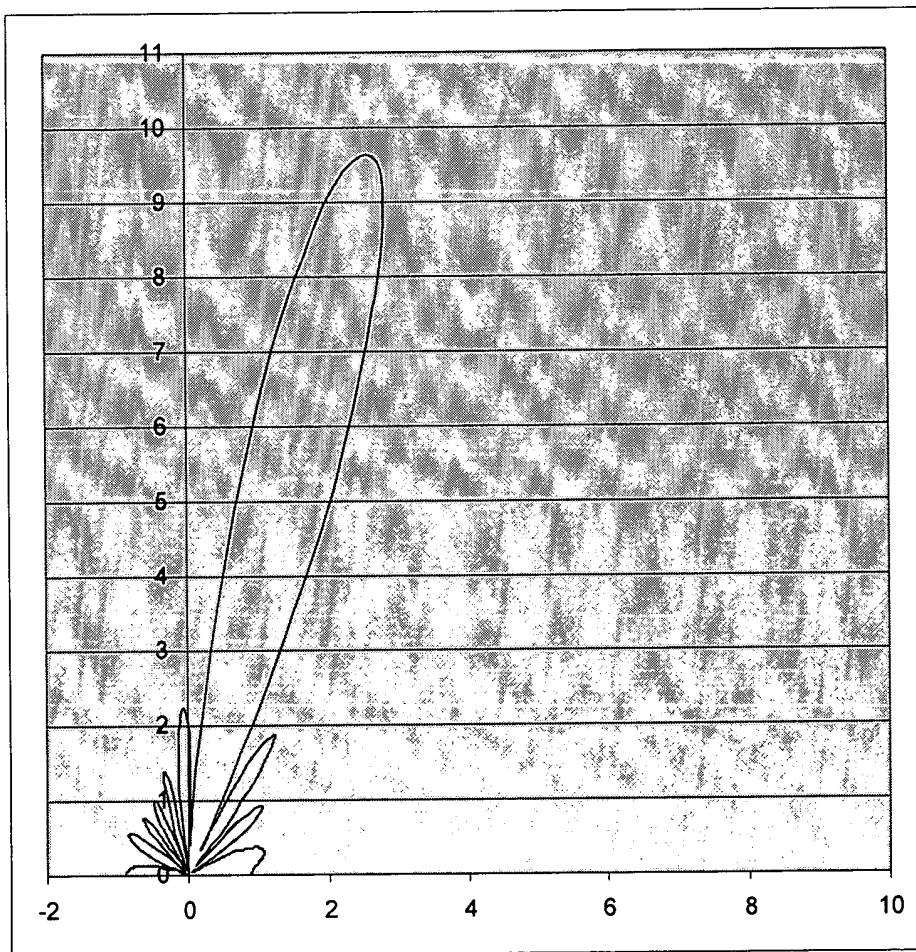
**Fig 9c Effect of interference on signal for ten antennae element array**

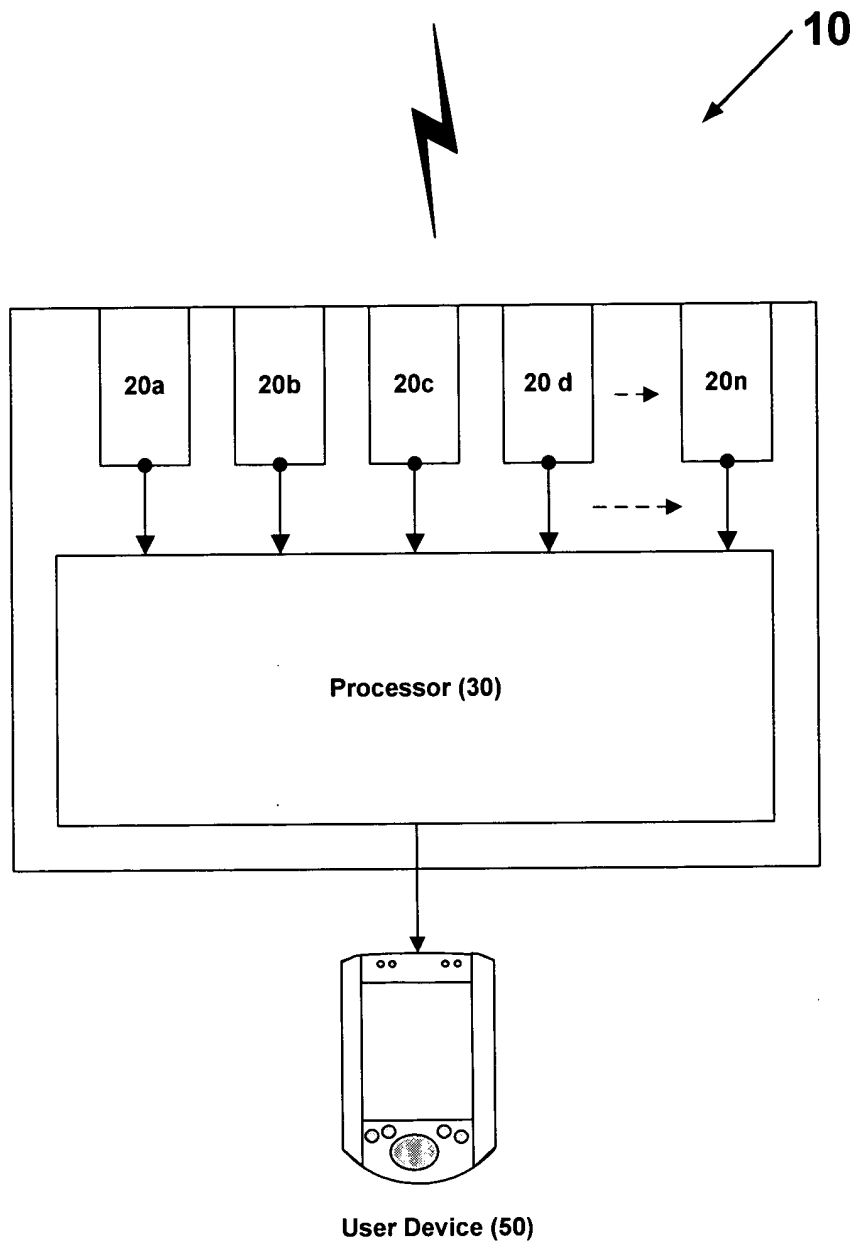


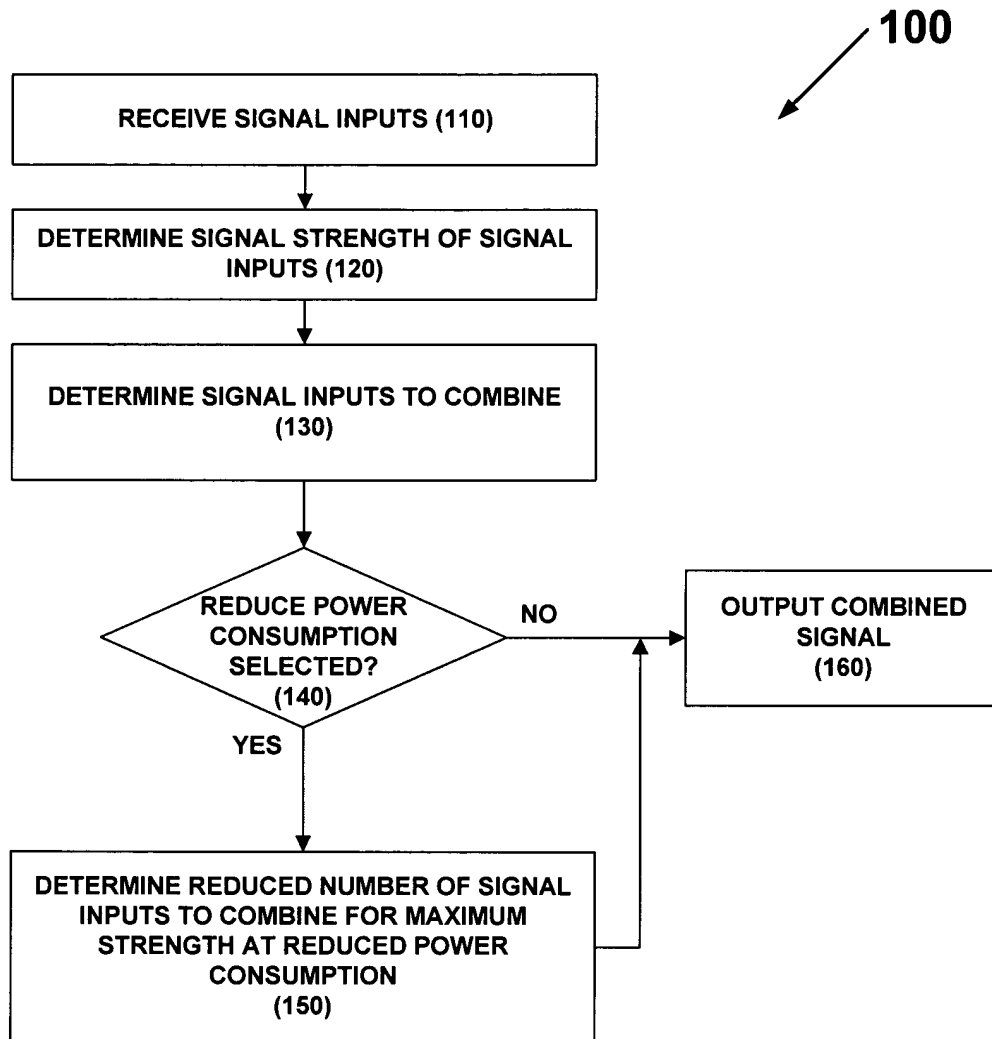


**Fig 10 Reduction in Interference as a function of number of antennae elements**

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REDUCING INTERFERENCE IN HIGH SPEED HOME  
NETWORK USING SIGNAL PROCESSING**Fig 11a Scanned Beam Pattern for ten antennae elements****Fig 11b Scanned Radial Beam Pattern for ten antennae elements**

**FIGURE 12**



**FIGURE 13**